

科目：專業英文

系所組：營養科學研究所

一、選擇題 50% (每題2分)

26. Which of the following is formed by bacterial synthesis in the colon?

- a. Vitamin K b. Vitamin D c. Vitamin B6 d. Niacin

27. If a patient experiences malabsorption of fat resulting from an impaired ability to produce adequate bile salts for micelle formation, how may fat absorption be improved?

- a. By increasing short-chain fatty acids in the diet b. By increasing medium-chain fatty acids in the diet
c. By increasing long-chain fatty acids in the diet d. By restricting dietary intake of cholesterol

28. What are primarily absorbed by the large intestine?

- a. Water and fats b. Carbohydrates c. Proteins d. Water and electrolytes

29. What effect may be achieved by eating a diet high in prebiotic carbohydrates?

- a. Decreased SCFA production in the bowel b. Increased growth of Lactobacilli spp.
c. Decreased absorption of bile salts d. Increased absorption of cation minerals

30. Which of the following conditions is necessary to obtain an accurate measure of a patient's basal metabolic rate (BMR)?

- a. Test at the end of the day when the patient is ready to go to sleep. b. Test 4 to 6 hours after the last meal.
c. Test in the morning after the patient has awakened. d. Test in environmental conditions equal to body temperature.

31. Which of these groups contains only essential amino acids?

- a. Arginine, tryptophan, threonine, serine b. Glycine, histidine, isoleucine, leucine
c. Valine, glutamine, asparagine, alanine d. Phenylalanine, threonine, histidine, leucine

32. Which of the following improves protein quality?

- a. Wine or vinegar marinade b. Increasing soybean intake
c. The Maillard reaction d. Exposing meat to sulfur dioxide

33. Which vitamin functions with the coenzymes NAD and NADP?

- a. Niacin b. Riboflavin c. Ascorbic acid d. Pyridoxine

34. In the patient's _____ history, you most likely find out about the patient's cultural views related to health care.

- a. medical b. social c. medication d. dietary

35. In protein synthesis, what subcomponent of DNA directs the inclusion of a specific amino acid within the protein?

- a. The gene b. The intron c. The codon d. The exon

36. Which of the following is NOT a physical sign of overhydration?

- a. Weight gain over 2 to 3 days b. Peripheral edema c. Decreased skin turgor d. Ascites

37. Which of the following can be used for assessing bone mineral density as well as measuring fat and boneless lean tissue?

- a. Bioelectrical impedance analysis b. Magnetic resonance imaging
c. Computed tomography d. Dual-energy x-ray absorptiometry

※ 注意：1.考生須在「彌封答案卷」上作答。

2.本試題紙空白部份可當稿紙使用。

3.考生於作答時可否使用計算機、法典、字典或其他資料或工具，以簡章之規定為準。

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38. For a normal healthy adult, fluid balance is achieved when the amount of water taken in is
a. half the amount that is lost. b. about equal to the amount lost. c. twice the amount lost.
d. unrelated to the amount of water lost.
39. Which organ(s) maintain acid–base balance by the regulation of hydrogen ions?
a. Lungs b. Liver c. Kidneys d. Adrenal glands
40. Sodium is increased the most by the intake of
a. fresh vegetables. b. frozen vegetables. c. fresh meats. d. luncheon meats.
41. Which indicator of protein status has the longest half-life?
a. Albumin b. Prealbumin c. Retinol-binding protein d. Transferrin
42. Which of the following is NOT a documentation style for entries into a medical record?
a. ADIME b. POMR c. EMR d. SOAP
43. Phytochemicals known as anthocyanins are found primarily in which of these foods?
a. Dark green vegetables such as spinach, kale, and chard
b. Wheat bran, fax seed, sesame seeds, and beans
c. Strawberries, raspberries, pomegranates, cranberries, and walnuts
d. Apples, pears, citrus, carrots, broccoli, cabbage, tomatoes, yams, and cucumbers
44. In what form is most body fat stored?
a. cholesterol. b. phospholipids. c. triglycerides. d. None of these are correct.
45. Arachadonic acid is associated with
a. glucose metabolism. b. omega-3 fatty acid metabolism. c. omega-6 fatty acid metabolism. d. cholesterol metabolism.
46. Which of the following foods provides all of the essential amino acids?
a. wheat b. peanut butter c. navy beans d. milk
47. How many calories does alcohol provide?
a. 4 kcal/g b. 7 kcal/g c. 9 kcal/g d. 12 kcal/g
48. Foods containing all essential amino acids in the proportion needed by the body are designated as
a. incomplete foods. b. high-quantity foods. c. dispensable foods. d. complete foods.
49. In metabolism, glucose is degraded to CO₂ and water. The carbon dioxide is produced in
a. the red blood cells. b. the citric acid cycle. c. glycolysis. d. the electron transport chain
50. Which of the following conditions would result in negative nitrogen balance?
a. recovery from injury b. weight training c. pregnancy d. kwashiorkor

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